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Serial No.: 08/479,997

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Page 2 [Second Supplemental Amendment to Applicants' January 4, 2000
Amendment Under 37 C.F.R. §1.115 - June 22, 2000]

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PATENT & TRADEMARK OFFICE



RINDLY AMEND THE ABOVE-IDENTIFIED APPLICATION AS FOLLOWS:

In The Specification:

Page 1, line 1, re-insert into the specification the originally filed disclosure beginning on page 1, line 1 (commencing with the section titled **"BACKGROUND OF THE INVENTION"**) and continuing up through page 52, line 20 (terminating with the sentence "The aforementioned publications are herein incorporated and made part of this disclosure." [Note: This re-inserted material was originally deleted by Applicants' June 7, 1995 Preliminary Amendment Accompanying Request for a Continuation Application Under 37 C.F.R. §1.60 (bottom of page 2) which was filed in this application.]

In The Claims:

Please delete claims 463, 479, 480, 491, 507, 508, 520, 548, 564 and 565 and substitute therefor the following rewritten claims:

463. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 454, wherein said PM is a monophosphate, a diphosphate or a triphosphate and said Sig moiety is covalently attached to said PM through a phosphorus atom or a phosphate oxygen.

479. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 478, wherein the sugar moiety of said terminal nucleotide has a hydrogen atom at the 2' position thereof.

480. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 478, wherein the sugar moiety of said terminal nucleotide has hydrogen atoms at each of the 2' and 3' positions thereof.

491. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 482, wherein said x and y each comprise a member selected from the group consisting of a monophosphate, a diphosphate and a triphosphate and said Sig moiety is covalently attached to either or both of said x and y through a phosphorus atom or a phosphate oxygen.

507. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 506, wherein z of said terminal nucleotide comprises a hydrogen atom at the 2' position thereof.

508. (Rewritten) The oligo- or polydeoxyribonucleotide of claim 506, wherein both y and z of said terminal nucleotide comprise a hydrogen atom at each of the 3' and 2' positions thereof, respectively.

520. (Rewritten) The oligo- or polyribonucleotide of claim 511, wherein said PM is a monophosphate, a diphosphate or a triphosphate and said Sig moiety is covalently attached to said PM through a phosphorus atom or a phosphate oxygen.

548. (Rewritten) The oligo- or polyribonucleotide of claim 539, wherein said x and y each comprise a member selected from the group consisting of a monophosphate, a diphosphate and a triphosphate and said Sig moiety is covalently attached to either or both of said x and y through a phosphorus atom or a phosphate oxygen.

564. (Rewritten) The oligo- or polyribonucleotide of claim 563, wherein z of said terminal nucleotide comprises a hydrogen atom at the 2' position thereof.

565. (Rewritten) The oligo- or polyribonucleotide of claim 563, wherein both y and z of said terminal nucleotide comprise a hydrogen atom at each of the 3' and 2' positions thereof, respectively.

* * * * *

nucleotide has hydrogen atoms at each of the 2' and 3' positions thereof." A similar recitation appears in rewritten claims 508 and 565 ("wherein both y and z of said terminal nucleotide comprise a hydrogen atom at each of the 3" and 2' positions thereof, respectively"). Lastly, claims 491 and 548 in their rewritten forms recite "wherein said x and y each comprise a member selected from the group consisting of a monophosphate, a diphosphate and a triphosphate and said Sig moiety is covalently attached to either or both of said x and y through a phosphorus atom or a phosphate oxygen."

No new matter is believed to be inserted by the rewritten claims above.
Their entry is respectfully requested.

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